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IN THE ABSTRACT

An FET device ~~comprises a semiconductor structure~~ with a source island [[,] ~~and~~ a drain island ~~ever~~ is formed on a horizontal surface of a substrate comprising an insulating material. A channel structure formed over the horizontal surface of the substrate, which connects between the drain and the source, ~~with the channel structure~~ comprises comprising a horizontal planar semiconductor channel fin formed above a vertical fin, ~~with the~~ The planar fin and the vertical fins having ~~form~~ a T-shaped cross-section. The bottom of the vertical fin is ~~contact with~~ contacts the horizontal surface of the substrate and the planar fin is ~~in contact with~~ contacts the top of the vertical fin. A gate dielectric layer covers exposed surfaces of the channel structure. A gate electrode straddles the channel gate dielectric and the channel structure. Then a sacrificial layer, e.g. such as SiGe, is deposited upon the substrate before forming the vertical fin, ~~which~~ may be either a semiconductor or dielectric material. The planar fin is comprises a semiconductor material such as Si, SiGe or Ge.